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RAW SEQUENCE LISTING DATE: 04/16/2002
PATENT APPLICATION: US/09/852,416 TIME: 16:00:02

Input Set : N:\Crf3\RULE60\09852416.raw
Output Set: N:\CRF3\04162002\I852416.raw

ENTERED

<110> APPLICANT: PKhosla, Chaitan
Ashley, Gary
Fu, Hong
Kao, Camilla M.
McDaniel, Robert
<120> TITLE OF INVENTION: COMBINATORIAL POLYKETIDE LIBRARIES PRODUCED USING A MODULAR PKS GENE CLUSTER AS SCAFFOLD
<130> FILE REFERENCE: 30062-20005.02
<140> CURRENT APPLICATION NUMBER: 09/852,416
<141> CURRENT FILING DATE: 2001-05-09
<150> PRIOR APPLICATION NUMBER: 09/859,854
<151> PRIOR FILING DATE: 2001-05-16
<150> PRIOR APPLICATION NUMBER: PCT/US98/08792
<151> PRIOR FILING DATE: 1998-04-30
<150> PRIOR APPLICATION NUMBER: 60/076,919
<151> PRIOR FILING DATE: 1998-03-05
<150> PRIOR APPLICATION NUMBER: 08/846,247
<151> PRIOR FILING DATE: 1997-04-30
<150> PRIOR APPLICATION NUMBER: 08/486,645
<151> PRIOR FILING DATE: 1995-06-07
<150> PRIOR APPLICATION NUMBER: 08/238,811
<151> PRIOR FILING DATE: 1994-05-06
<160> NUMBER OF SEQ ID NOS: 44
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 1 - A BamHI site engineered for the 5' boundary of the acyltransferase domain.
<400> SEQUENCE: 1
gcgcagcagg gatccgtctt cgtc 24
<210> SEQ ID NO: 2
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 1 - A PstI site engineered for introduction between the acyltransferase and reductive domains.
<400> SEQUENCE: 2
cgcgtctggc tgcagccgaa gccg 24
<210> SEQ ID NO: 3

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<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 1 - A XbaI site engineered for introduction at the 3' end of the reductive domain.
<400> SEQUENCE: 3
gcgcgggtga gatctaagcc ggcc 24

<210> SEQ ID NO: 4
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 2 - A BamHI site engineered for the 5' boundary of the acyltransferase domain.
<400> SEQUENCE: 4
tccgacggtg gatccgtgtt cgtc 24

<210> SEQ ID NO: 5
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 2 - A PstI site engineered for introduction between the acyltransferase and reductive domains.
<400> SEQUENCE: 5
cggttctggc tgcagccgga ccgc 24

<210> SEQ ID NO: 6
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 2 - A XbaI site engineered for introduction at the 3' end of the reductive domain.
<400> SEQUENCE: 6
gtcggccaga gatctcgaga ggca 24

<210> SEQ ID NO: 7
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module 3 - A BamHI site engineered for the 5' boundary of the acyltransferase domain.
<400> SEQUENCE: 7
gacgggcgcg gatccgtctt cctg 24

<210> SEQ ID NO: 8
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:

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104 <223> OTHER INFORMATION: Module 3 - A PstI site engineered for introduction
105 between the acyltransferase and reductive domains.
106 <400> SEQUENCE: 8
107 cgctactggc tgcagcccgc cgca 24
109 <210> SEQ ID NO: 9
110 <211> LENGTH: 24
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Module 3 - A XbaI site engineered for introduction
115 at the 3' end of the reductive domain.
116 <400> SEQUENCE: 9
117 ctcggcaaca gatctgagcg gcca 24
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 24
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Module 4 - A BamHI site engineered for the 5'
125 boundary of the acyltransferase domain.
126 <400> SEQUENCE: 10
127 gcgccgcgcg gatccgtcct ggtc 24
129 <210> SEQ ID NO: 11
130 <211> LENGTH: 24
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Module 4 - A PstI site engineered for introduction
135 between the acyltransferase and reductive domains.
136 <400> SEQUENCE: 11
137 cgcttctggc tgcagccgca ccgg 24
139 <210> SEQ ID NO: 12
140 <211> LENGTH: 24
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Module 4 - A XbaI site engineered for introduction
145 at the 3' end of the reductive domain.
146 <400> SEQUENCE: 12
147 ctcggccaga gatctcaagc cggg 24
149 <210> SEQ ID NO: 13
150 <211> LENGTH: 24
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Module 5 - A BamHI site engineered for the 5'
155 boundary of the acyltransferase domain.
156 <400> SEQUENCE: 13
157 actcgccgcg gatccgcgat ggtg 24

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159 <210> SEQ ID NO: 14
160 <211> LENGTH: 24
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Module 5 - A PstI site engineered for introduction
165 between the acyltransferase and reductive domains.
166 <400> SEQUENCE: 14
167 cggtactggc tgcagatccc cacc 24
169 <210> SEQ ID NO: 15
170 <211> LENGTH: 24
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Module 5 - A XbaI site engineered for introduction
175 at the 3' end of the reductive domain.
176 <400> SEQUENCE: 15
177 gacccgctca gatctcggga ggag 24
179 <210> SEQ ID NO: 16
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Module 6 - A BamHI site engineered for the 5'
185 boundary of the acyltransferase domain.
186 <400> SEQUENCE: 16
187 tccgccggcg gatccgtttt cgtc 24
189 <210> SEQ ID NO: 17
190 <211> LENGTH: 24
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Module 6 - A PstI site engineered for introduction
195 between the acyltransferase and reductive domains.
196 <400> SEQUENCE: 17
197 cggtactggc tgcagccgga ggtg 24
199 <210> SEQ ID NO: 18
200 <211> LENGTH: 24
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Module 6 - A XbaI site engineered for introduction
205 at the 3' end of the reductive domain.
206 <400> SEQUENCE: 18
207 gacgtggcga gatctccggg ggtg 24
209 <210> SEQ ID NO: 19
210 <211> LENGTH: 23
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence

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<220> FEATURE:
<223> OTHER INFORMATION: A PstI site that is in-frame and upstream of XbaI in pUC19 that generates this junction at the 5' end of the cassette.
<400> SEQUENCE: 19
ctgcaggtcg actctagcct ggt 23

<210> SEQ ID NO: 20
<211> LENGTH: 27
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module rapAT2 (forward) Primer pairs used for PCR amplification of rapamycin PKS cassettes.
<400> SEQUENCE: 20
tttagatctg tgttcgtctt cccgggt 27

<210> SEQ ID NO: 21
<211> LENGTH: 36
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module rapAT2 (reverse) Primer pairs used for PCR amplification of rapamycin PKS cassettes.
<400> SEQUENCE: 21
tttctgcagc cagtaccgct ggtgctggaa ggcgta 36

<210> SEQ ID NO: 22
<211> LENGTH: 33
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module rapAT14 (forward) Primer pairs used for PCR amplification of rapamycin PKS cassettes.
<400> SEQUENCE: 22
tttggatccg ccttcctgtt cgacgggcaa ggc 33

<210> SEQ ID NO: 23
<211> LENGTH: 33
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module rapAT14 (reverse) Primer pairs used for PCR amplification of rapamycin PKS cassettes.
<400> SEQUENCE: 23
tttctgcagc cagtaggact ggtgctggaa cgg 33

<210> SEQ ID NO: 24
<211> LENGTH: 36
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Module rapKR2 (forward) Primer pairs used for PCR amplification of rapamycin PKS cassettes.

VERIFICATION SUMMARY DATE: 04/16/2002
PATENT APPLICATION: **US/09/852,416** TIME: 16:00:03

Input Set : **N:\Crf3\RULE60\09852416.raw**
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